

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 800317WO	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/FI 2003/000816	International filing date (day/month/year) 4 November 2003	(Earliest) Priority Date (day/month/year) 6 November 2002
Applicant Nokia Corporation et al		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. Certain claims were found unsearchable (see Box No. II)

3. Unity of invention is lacking (see Box No. III)

4. With regard to the title,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the abstract,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. 2

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b. none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2003/000816

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H04Q 7/38, H04L 12/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: H04Q, H04L, H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 0143395 A1 (NOKIA NETWORKS OY), 14 June 2001 (14.06.2001), page 2, line 1 - page 4, line 14, figure 2; the claims --	1-29
X	US 5400390 A (SALIN, H.P.), 21 March 1995 (21.03.1995), column 2, line 35 - column 3, line 16; column 5, line 11 - line 65, the claims --	1-29
X	US 6175622 B1 (CHINIWALA, S. ET AL), 16 January 2001 (16.01.2001), column 8, line 6 - column 9, line 37 --	1-29

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

- "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

- "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

- "&" document member of the same patent family

Date of the actual completion of the international search

21 January 2004

Date of mailing of the international search report

03-02-2004

Name and mailing address of the ISA/
Swedish Patent Office
Box 5055, S-102 42 STOCKHOLM
Facsimile No. +46 8 666 02 86

Authorized officer

Fredrik Blomqvist /OGU
Telephone No. +46 8 782 25 00

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2003/000816

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 9213428 A1 (TELENOKIA OY), 6 August 1992 (06.08.1992), page 1, line 4 - page 4, line 15 --	1-29
A	WO 9956326 A2 (SIEMENS AKTIENGESELLSCHAFT), 4 November 1999 (04.11.1999), page 9, line 1 - page 10, line 7 --	1-29
A	WO 0221768 A2 (REEFEDGE, INC.), 14 March 2002 (14.03.2002), page 6, line 26 - page 7, line 33 --	1-29
A	WO 0225985 A1 (GREAT HUMAN SOFTWARE CO., LTD.), 28 March 2002 (28.03.2002), page 3, line 27 - page 5, line 8 -- -----	1-29

INTERNATIONAL SEARCH REPORT

Information on patent family members

24/12/2003

International application No.

PCT/FI 2003/000816

WO	0143395	A1	14/06/2001	AU	2281200	A	18/06/2001
				CN	1381125	T	20/11/2002
				EP	1238514	A	11/09/2002
				JP	2003516669	T	13/05/2003
US	5400390	A	21/03/1995	AT	144672	T	15/11/1996
				AU	651466	B	21/07/1994
				AU	1914192	A	08/01/1993
				DE	69214772	D,T	03/04/1997
				EP	0542963	A,B	26/05/1993
				SE	0542963	T3	
				FI	87963	B,C	30/11/1992
				FI	912737	D	00/00/0000
				HK	1007374	A	00/00/0000
				JP	3184526	B	09/07/2001
				JP	6500683	T	20/01/1994
				NO	305730	B	12/07/1999
				NO	930412	A	02/04/1993
				WO	9222174	A	10/12/1992
US	6175622	B1	16/01/2001	NONE			
WO	9213428	A1	06/08/1992	AT	134813	T	15/03/1996
				AU	659814	B	01/06/1995
				AU	9047291	A	27/08/1992
				DE	69117502	D,T	10/10/1996
				EP	0520049	A,B	30/12/1992
				SE	0520049	T3	
				FI	90713	B,C	30/11/1993
				FI	910211	A	16/07/1992
				NO	306370	B	25/10/1999
				NO	923575	A	13/11/1992
WO	9956326	A2	04/11/1999	CN	1315122	T	26/09/2001
				DE	19819582	A	04/11/1999
				EP	1119994	A	01/08/2001
WO	0221768	A2	14/03/2002	AU	8679901	A	22/03/2002
				AU	8839401	A	22/03/2002
				CA	2419853	A	14/03/2002
				CA	2419865	A	14/03/2002
				EP	1340337	A	03/09/2003
				EP	1346540	A	24/09/2003
				US	2002032855	A	14/03/2002
				WO	0221803	A	14/03/2002
WO	0225985	A1	28/03/2002	AU	7463601	A	02/04/2002
				KR	2002022976	A	28/03/2002